



SEQUENCE LISTING

<110> Del Borgo, Mark
Wade, John D.
Bathgate, Ross D.
Hughes, Richard A.
Howard Florey Institute of Physiology and Medicine
The University of Melbourne

<120> Relaxin Superfamily Peptide Analogues

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<140> US 10/561,304
<141> 2005-12-19

<150> AU 2003903124
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<151> 2004-06-18

<160> 25

<170> PatentIn Ver. 2.1

<210> 1
<211> 28
<212> PRT
<213> Homo sapiens

<220>
<223> relaxin-1 b-chain

<400> 1
Lys Trp Lys Asp Asp Val Ile Lys Leu Cys Gly Arg Glu Leu Val Arg
1 5 10 15
Ala Gln Ile Ala Ile Cys Gly Met Ser Thr Trp Ser
20 25

<210> 2
<211> 29
<212> PRT
<213> Homo sapiens

<220>
<223> relaxin-2 b-chain

<400> 2
Asp Ser Trp Met Glu Glu Val Ile Lys Leu Cys Gly Arg Glu Leu Val
1 5 10 15
Arg Ala Gln Ile Ala Ile Cys Gly Met Ser Thr Trp Ser
20 25

<210> 3
 <211> 26
 <212> PRT
 <213> Homo sapiens

<220>
 <223> relaxin-3 b-chain

<400> 3
 Arg Ala Ala Pro Tyr Gly Val Arg Leu Cys Gly Arg Glu Phe Ile Arg
 1 5 10 15
 Ala Val Ile Phe Thr Cys Gly Gly Arg Trp
 20 25

<210> 4
 <211> 30
 <212> PRT
 <213> Homo sapiens

<220>
 <223> insulin b-chain

<400> 4
 Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr
 1 5 10 15
 Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Pro Lys Thr
 20 25 30

<210> 5
 <211> 29
 <212> PRT
 <213> Homo sapiens

<220>
 <223> insulin-like growth factor 1 (IGF-1) b-chain

<400> 5
 Gly Pro Glu Thr Leu Cys Gly Ala Glu Leu Val Asp Ala Leu Gln Phe
 1 5 10 15
 Val Cys Gly Asp Arg Gly Phe Tyr Phe Asn Lys Pro Thr
 20 25

<210> 6
 <211> 31
 <212> PRT
 <213> Homo sapiens

<220>
 <223> insulin-like growth factor 2 (IGF-2) b-chain

<400> 6

Tyr Arg Pro Ser Glu Thr Leu Cys Gly Gly Glu Leu Val Asp Thr Leu
 1 5 10 15

Gln Phe Val Cys Gly Asp Arg Gly Phe Tyr Phe Ser Arg Pro Ala
 20 25 30

<210> 7

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<223> insulin-like 3 (INSL3) b-chain

<400> 7

Pro Thr Pro Glu Met Arg Glu Lys Leu Cys Gly His His Phe Val Arg
 1 5 10 15

Ala Leu Val Arg Val Cys Gly Gly Pro Arg Trp Ser Thr Glu Ala
 20 25 30

<210> 8

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<223> insulin-like 4 (INSL4) b-chain

<400> 8

Glu Ser Leu Ala Ala Glu Leu Arg Gly Cys Gly Pro Arg Phe Gly Lys
 1 5 10 15

His Leu Leu Ser Tyr Cys Pro Met Pro Glu Lys Thr Phe Thr Thr Thr
 20 25 30

Pro

<210> 9

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<223> insulin-like 5 (INSL5) b-chain

<400> 9

Val Arg Ser Lys Glu Ser Val Arg Leu Cys Gly Leu Glu Tyr Ile Arg
 1 5 10 15

Thr Val Ile Tyr Ile Cys Ala Ser Ser Arg Trp Arg Arg His Leu Glu
 20 25 30

Gly

<210> 10
 <211> 33
 <212> PRT
 <213> Homo sapiens

<220>
 <223> insulin-like 6 (INSL6) b-chain

<400> 10
 Ser Asp Ile Ser Ser Ala Arg Lys Leu Cys Gly Arg Tyr Leu Val Lys
 1 5 10 15

Glu Ile Glu Lys Leu Cys Gly His Ala Asn Trp Ser Gln Phe Arg Phe
 20 25 30

Glu

<210> 11
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:cyclic relaxin
 b-chain mimetic (cRlx)

<220>
 <221> DISULFID
 <222> (2)..(24)

<400> 11
 Ser Cys Met Glu Glu Val Ile Lys Leu Ser Gly Arg Glu Leu Val Arg
 1 5 10 15

Ala Gln Ile Ala Ile Ser Gly Cys Ser
 20 25

<210> 12
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
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 (INSL3) b-chain peptide analogue 4, cyclic peptide
 cINSL3a

<220>
 <221> DISULFID
 <222> (3)..(25)

<400> 12
 Thr Pro Cys Met Arg Glu Lys Leu Ser Gly His His Phe Val Arg Ala
 1 5 10 15

Leu Val Arg Val Ser Gly Gly Pro Cys Trp Ser
 20 25

<210> 13
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 <212> PRT
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<220>
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 (INSL3) b-chain peptide analogue 5, cyclic peptide
 cINSL3b

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 <222> (3)..(25)

<400> 13
 Thr Pro Cys Met Arg Glu Lys Leu Ser Gly Arg His Phe Val Arg Ala
 1 5 10 15
 Leu Val Arg Val Ser Gly Gly Pro Cys Trp Ser
 20 25

<210> 14
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 <212> PRT
 <213> Artificial Sequence

<220>
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 (INSL3) b-chain peptide analogue 6

<400> 14
 Thr Pro Cys Met Arg Glu Lys Leu Ser Gly Arg Glu Leu Val Arg Ala
 1 5 10 15
 Gln Val Ile Ala Ile Gly Gly Pro Cys Trp Ser
 20 25

<210> 15
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:insulin-like 3
 (INSL3) b-chain peptide analogue 7

<400> 15
 Thr Cys Glu Met Arg Glu Lys Leu Ser Gly His His Phe Val Arg Ala
 1 5 10 15
 Leu Val Arg Val Ser Gly Gly Cys Arg Trp Ser
 20 25

<210> 16
 <211> 24
 <212> PRT
 <213> Homo sapiens

<220>

<223> relaxin-1 a-chain

<400> 16

Arg Pro Tyr Val Ala Leu Phe Glu Lys Cys Cys Leu Ile Gly Cys Thr
1 5 10 15

Lys Arg Ser Leu Ala Lys Tyr Cys
20

<210> 17

<211> 24

<212> PRT

<213> Homo sapiens

<220>

<223> relaxin-2 a-chain

<400> 17

Gln Leu Tyr Ser Ala Leu Ala Asn Lys Cys Cys His Val Gly Cys Thr
1 5 10 15

Lys Arg Ser Leu Ala Arg Phe Cys
20

<210> 18

<211> 24

<212> PRT

<213> Homo sapiens

<220>

<223> relaxin-3 a-chain

<400> 18

Asp Val Leu Ala Gly Leu Ser Ser Ser Cys Cys Lys Trp Gly Cys Ser
1 5 10 15

Lys Ser Glu Ile Ser Ser Leu Cys
20

<210> 19

<211> 26

<212> PRT

<213> Homo sapiens

<220>

<223> insulin a-chain

<400> 19

Ser Leu Gln Lys Arg Gly Ile Val Glu Gln Cys Cys Thr Ser Ile Cys
1 5 10 15

Ser Leu Tyr Gln Leu Glu Asn Tyr Cys Asn
20 25

<210> 20
 <211> 25
 <212> PRT
 <213> Homo sapiens

<220>
 <223> insulin-like growth factor 1 (IGF-1) a-chain

<400> 20
 Ala Pro Gln Thr Gly Ile Val Asp Glu Cys Cys Phe Arg Ser Cys Asp
 1 5 10 15
 Leu Arg Arg Leu Glu Met Tyr Cys Ala
 20 25

<210> 21
 <211> 25
 <212> PRT
 <213> Homo sapiens

<220>
 <223> insulin-like growth factor 2 (IGF-2) a-chain

<400> 21
 Arg Arg Ser Arg Gly Ile Val Glu Glu Cys Cys Phe Arg Ser Cys Asp
 1 5 10 15
 Leu Ala Leu Leu Glu Thr Leu Cys Ala
 20 25

<210> 22
 <211> 26
 <212> PRT
 <213> Homo sapiens

<220>
 <223> insulin-like 3 (INSL3) a-chain (Leydig
 insulin-like (Ley I-L)/relaxin like factor (RLF))

<400> 22
 Ala Ala Ala Thr Asn Pro Ala Arg Tyr Cys Cys Leu Ser Gly Cys Thr
 1 5 10 15
 Gln Gln Asp Leu Leu Thr Leu Cys Pro Tyr
 20 25

<210> 23
 <211> 25
 <212> PRT
 <213> Homo sapiens

<220>
 <223> insulin-like 4 (INSL4) a-chain (placentin/early
 placenta insulin-like (EPIL))

<400> 23
 Arg Ser Gly Arg His Arg Phe Asp Pro Phe Cys Cys Glu Val Ile Cys
 1 5 10 15
 Asp Asp Gly Thr Ser Val Lys Leu Cys
 20 25

<210> 24
 <211> 24
 <212> PRT
 <213> Homo sapiens

<220>
 <223> insulin-like 5 (INSL5) a-chain

<400> 24
 Met Ser Arg Gln Asp Leu Gln Thr Leu Cys Cys Thr Asp Gly Cys Ser
 1 5 10 15
 Met Thr Asp Leu Ser Ala Leu Cys
 20

<210> 25
 <211> 24
 <212> PRT
 <213> Homo sapiens

<220>
 <223> insulin-like 6 (INSL6) a-chain

<400> 25
 Arg Lys Arg Arg Gly Tyr Ser Glu Lys Cys Cys Leu Thr Gly Cys Thr
 1 5 10 15
 Lys Glu Glu Leu Ser Ile Ala Cys
 20